



Bachelor Thesis: Lucien Schaller

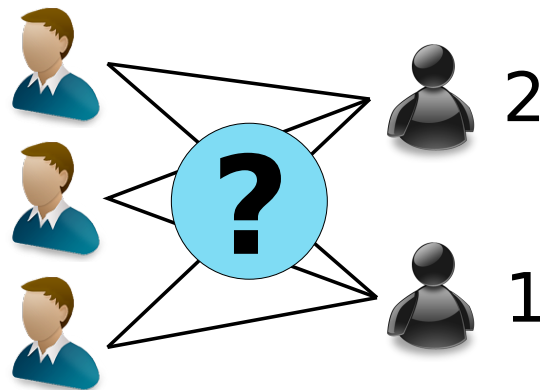
Anonymous and Transparent E-Voting System

People are reluctant to accept electronic voting systems due to the implications on privacy and transparency of current implementations. While multiple countries have tried to use some kind of computer based voting it has so far been difficult to detect fraud [1, 2]. Using ideas from cryptocurrencies, better systems can be constructed that allow any member of the public to verify the correct attribution of votes to candidates while keeping the personal preferences secret.

In this bachelor thesis a system will be designed and implemented to hold votes over a list of options in an anonymous and publicly verifiable way.

The project will have the following aims (* indicate the expected amount of time spent on those task):

1. Literature review of electronic voting systems (*)
2. Designing the architecture and protocols (**)
3. Implementing the system in a usable way (***)
4. Documenting and presenting the system (*)



Supervisor

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References

- [1] Chaos computer club on e-voting in switzerland. https://www.ccczh.ch/aktivitaten/e_voting/.
- [2] Beschreibung und auswertung der untersuchungen an nedap-wahlcomputern, 2007. <http://wahlcomputer.ccc.de/doku/nedapReport54.pdf>.